

Environmental Protection Agency

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records of letters to producers and importers conferring unexpended HCFC-141b exemption allowances for the specified control period in the notice, orders for the production or import of HCFC-141b under those letters and written verifications that the HCFC-141b was produced or imported for the express purpose of meeting HCFC-141b exemption needs in accordance with information submitted under §82.16(h), and that the quantity will not be re-sold.

[68 FR 2848, Jan. 21, 2003, as amended at 71 FR 41172, July 20, 2006]

APPENDIX A TO SUBPART A OF PART 82—  
CLASS I CONTROLLED SUBSTANCES

Class 1 controlled substances	ODP
<b>A. Group I:</b>	
CFCl <sub>3</sub> -Trichlorofluoromethane (CFC-II) .....	1.0
CF <sub>2</sub> Cl <sub>2</sub> -Dichlorodifluoromethane (CFC-12) ....	1.0
C <sub>2</sub> F <sub>3</sub> Cl <sub>3</sub> -Trichlorotrifluoroethane (CFC-113)	0.8
C <sub>2</sub> F <sub>4</sub> Cl <sub>2</sub> -Dichlorotetrafluoroethane (CFC-114) .....	1.0
C <sub>2</sub> F <sub>5</sub> Cl-Monochloropentafluoroethane (CFC-115) .....	0.6
All isomers of the above chemicals	
<b>B. Group II:</b>	
CF <sub>2</sub> ClBr-Bromochlorodifluoromethane (Halon-1211) .....	3.0
CF <sub>3</sub> Br-Bromotrifluoromethane (Halon-1301)	10.0
C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub> -Dibromotetrafluoroethane (Halon-2402) .....	6.0
All isomers of the above chemicals	
<b>C. Group III:</b>	
CF <sub>3</sub> Cl-Chlorotrifluoromethane (CFC-13) .....	1.0
C <sub>2</sub> FCl <sub>3</sub> -(CFC-111) .....	1.0
C <sub>2</sub> F <sub>2</sub> Cl <sub>2</sub> -(CFC-112) .....	1.0
C <sub>3</sub> FCl <sub>2</sub> -(CFC-211) .....	1.0
C <sub>3</sub> F <sub>2</sub> Cl-(CFC-212) .....	1.0
C <sub>3</sub> F <sub>3</sub> Cl <sub>2</sub> -(CFC-213) .....	1.0
C <sub>3</sub> F <sub>4</sub> Cl-(CFC-214) .....	1.0
C <sub>3</sub> F <sub>5</sub> Cl <sub>2</sub> -(CFC-215) .....	1.0
C <sub>3</sub> F <sub>6</sub> Cl-(CFC-216) .....	1.0
C <sub>3</sub> F <sub>7</sub> Cl-(CFC-217) .....	1.0
All isomers of the above chemicals	
<b>D. Group IV: CCl<sub>4</sub>-Carbon Tetrachloride .....</b>	
	1.1
<b>E. Group V:</b>	
C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> -1,1,1 Trichloroethane (Methyl chloroform) .....	0.1
All isomers of the above chemical except 1,1,2-trichloroethane	
<b>F. Group VI: CH<sub>3</sub> Br—Bromomethane (Methyl Bromide) .....</b>	
	0.7
<b>G. Group VII:</b>	
CHFBR <sub>2</sub> .....	1.00
CHF <sub>2</sub> Br (HBFC-2201) .....	0.74
CH <sub>2</sub> FBr .....	0.73
C <sub>2</sub> HFBr <sub>4</sub> .....	0.3-0.8
C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub> .....	0.5-1.8
C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub> .....	0.4-1.6
C <sub>2</sub> HF <sub>4</sub> Br .....	0.7-1.2
C <sub>2</sub> H <sub>2</sub> FBR <sub>3</sub> .....	0.1-1.1
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub> .....	0.2-1.5
C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br .....	0.7-1.6
C <sub>2</sub> H <sub>2</sub> FBR <sub>2</sub> .....	0.1-1.7
C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br .....	0.2-1.1
C <sub>2</sub> H <sub>4</sub> FBr .....	0.07-0.1

Class 1 controlled substances	ODP
C <sub>3</sub> HFBr <sub>6</sub> .....	0.3-1.5
C <sub>3</sub> HF <sub>2</sub> Br <sub>5</sub> .....	0.2-1.9
C <sub>3</sub> HF <sub>3</sub> Br <sub>4</sub> .....	0.3-1.8
C <sub>3</sub> HF <sub>4</sub> Br <sub>3</sub> .....	0.5-2.2
C <sub>3</sub> HF <sub>5</sub> Br <sub>2</sub> .....	0.9-2.0
C <sub>3</sub> HF <sub>6</sub> Br .....	0.7-3.3
C <sub>3</sub> H <sub>2</sub> FBR <sub>5</sub> .....	0.1-1.9
C <sub>3</sub> H <sub>2</sub> F <sub>2</sub> BR <sub>4</sub> .....	0.2-2.1
C <sub>3</sub> H <sub>2</sub> F <sub>3</sub> BR <sub>3</sub> .....	0.2-5.6
C <sub>3</sub> H <sub>2</sub> F <sub>4</sub> BR <sub>2</sub> .....	0.3-7.5
C <sub>3</sub> H <sub>2</sub> F <sub>5</sub> BR .....	0.9-14
C <sub>3</sub> H <sub>3</sub> FBR <sub>4</sub> .....	0.08-1.9
C <sub>3</sub> H <sub>3</sub> F <sub>2</sub> BR <sub>3</sub> .....	0.1-3.1
C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> BR <sub>2</sub> .....	0.1-2.5
C <sub>3</sub> H <sub>3</sub> F <sub>4</sub> BR .....	0.3-4.4
C <sub>3</sub> H <sub>4</sub> FBR <sub>3</sub> .....	0.03-0.3
C <sub>3</sub> H <sub>4</sub> F <sub>2</sub> BR <sub>2</sub> .....	0.1-1.0
C <sub>3</sub> H <sub>4</sub> F <sub>3</sub> BR .....	0.07-0.8
C <sub>3</sub> H <sub>5</sub> FBR <sub>2</sub> .....	0.04-0.4
C <sub>3</sub> H <sub>5</sub> F <sub>2</sub> BR .....	0.07-0.8
C <sub>3</sub> H <sub>6</sub> FB .....	0.02-0.7
<b>H. Group VIII:</b>	
CH <sub>2</sub> BrCl (Chlorobromomethane) .....	0.12.

[60 FR 24986, May 10, 1995, as amended at 68 FR 42892, July 18, 2003]

APPENDIX B TO SUBPART A OF PART 82—  
CLASS II CONTROLLED SUBSTANCES <sup>A</sup>

Controlled Substance	ODP
1. Dichlorofluoromethane (HCFC-21) .....	0.04
2. Monochlorodifluoromethane (HCFC-22).	0.055
3. Monochlorofluoromethane (HCFC-31)	0.02
4. Tetrachlorofluoroethane (HCFC-121) ..	0.01-0.04
5. Trichlorodifluoroethane (HCFC-122) ...	0.02-0.08
6. Dichlorotrifluoroethane (HCFC-123) ....	0.02
7. Monochlorotetrafluoroethane (HCFC-124).	0.022
8. Trichlorofluoroethane (HCFC-131) .....	0.007-0.05
9. Dichlorodifluoroethane (HCFC-132) ....	0.008-0.05
10. Monochlorotrifluoroethane (HCFC-133).	0.02-0.06
11. Dichlorofluoroethane (HCFC-141b) ...	0.11
12. Monochlorodifluoroethane (HCFC-142b).	0.065
13. Chlorofluoroethane (HCFC-151) .....	0.003-0.005
14. Hexachlorofluoropropane (HCFC-221).	0.015-0.07
15. Pentachlorodifluoropropane (HCFC-222).	0.01-0.09
16. Tetrachlorotrifluoropropane (HCFC-223).	0.01-0.08
17. Trichlorotetrafluoropropane (HCFC-224).	0.01-0.09
18. Dichloropentafluoropropane (HCFC-225ca).	0.025
19. Dichloropentafluoropropane (HCFC-225cb).	0.033
20. Monochlorohexafluoropropane (HCFC-226).	0.02-0.10
21. Pentachlorofluoropropane (HCFC-231).	0.05-0.09
22. Tetrachlorodifluoropropane (HCFC-232).	0.008-0.10
23. Trichlorotrifluoropropane (HCFC-233)	0.007-0.23
24. Dichlorotetrafluoropropane (HCFC-234).	0.01-0.28
25. Monochloropentafluoropropane (HCFC-235).	0.03-0.52

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Controlled Substance	ODP
26. Tetrachlorofluoropropane (HCFC-241).	0.004-0.09
27. Trichlorodifluoropropane (HCFC-242)	0.005-0.13
28. Dichlorotrifluoropropane (HCFC-243)	0.007-0.12
29. Monochlorotetrafluoropropane (HCFC-244).	0.009-0.14
30. Trichlorofluoropropane (HCFC-251) ..	0.001-0.01
31. Dichlorodifluoropropane (HCFC-252)	0.005-0.04
32. Monochlorotrifluoropropane (HCFC-253).	0.003-0.03
33. Dichlorofluoropropane (HCFC-261) ..	0.002-0.02
34. Monochlorodifluoropropane (HCFC-262).	0.002-0.02
35. Monochlorofluoropropane (HCFC-271).	0.001-0.03

<sup>a</sup> According to Annex C of the Montreal Protocol, "Where a range of ODPs is indicated, the highest value in that range shall be used for the purposes of the Protocol. The ODPs listed as a single value have been determined from calculations based on laboratory measurements. Those listed as a range are based on estimates and are less certain. The range pertains to an isomeric group. The upper value is the estimate of the ODP of the isomer with the highest ODP, and the lower value is the estimate of the ODP of the isomer with the lowest ODP."

[68 FR 2859, Jan. 21, 2003]

APPENDIX C TO SUBPART A OF PART 82—  
PARTIES TO THE MONTREAL PRO-  
TOCOL, AND NATIONS COMPLYING  
WITH, BUT NOT PARTIES TO, THE  
PROTOCOL

ANNEX 1 TO APPENDIX C OF SUBPART A—PAR-  
TIES TO THE MONTREAL PROTOCOL (AS OF  
JANUARY 29, 2003)

The check mark [✓] means the particular country ratified the Protocol or the specific Amendment package. Amendment packages are identified by the name of the city where the amendment package was negotiated and agreed. Updated lists of Parties to the Protocol and the Amendments can be located at: <http://www.unep.org/ozone/ratif.shtml>.

Foreign state	Montreal protocol	London amendments	Copenhagen amendments	Montreal amendments	Beijing amendments
Albania .....	✓				
Algeria .....	✓				
Angola .....	✓	✓			
Antigua and Barbuda .....	✓	✓	✓	✓	
Argentina .....	✓	✓	✓	✓	
Armenia .....	✓				
Australia .....	✓	✓	✓	✓	
Austria .....	✓	✓	✓	✓	
Azerbaijan .....	✓	✓	✓	✓	
Bahamas .....	✓	✓	✓		
Bahrain .....	✓	✓	✓	✓	
Bangladesh .....	✓	✓	✓	✓	
Barbados .....	✓	✓	✓	✓	
Belarus .....	✓	✓			✓
Belgium .....	✓	✓	✓		
Belize .....	✓	✓	✓		
Benin .....	✓	✓	✓		
Bolivia .....	✓	✓	✓	✓	
Bosnia and Herzegovina .....	✓				
Botswana .....	✓	✓	✓		
Brazil .....	✓	✓	✓		
Brunei Darussalam .....	✓				
Bulgaria .....	✓	✓	✓	✓	✓
Burkina Faso .....	✓	✓	✓	✓	✓
Burundi .....	✓	✓	✓	✓	✓
Cambodia .....	✓				
Cameroon .....	✓	✓	✓		
Canada .....	✓	✓	✓	✓	✓
Cape Verde .....	✓	✓	✓	✓	
Central African Republic .....	✓				
Chad .....	✓	✓	✓	✓	
Chile .....	✓	✓	✓	✓	✓
China .....	✓	✓	✓		
Colombia .....	✓	✓	✓		
Comoros .....	✓	✓	✓	✓	✓
Congo .....	✓	✓	✓	✓	✓
Congo, Democratic Republic of .....	✓	✓	✓		
Costa Rica .....	✓	✓	✓		
Cote d'Ivoire .....	✓	✓	✓		
Croatia .....	✓	✓	✓	✓	✓
Cuba .....	✓	✓	✓		
Cyprus .....	✓	✓	✓		
Czech Republic .....	✓	✓	✓	✓	✓
Denmark .....	✓	✓	✓	✓	
Djibouti .....	✓	✓	✓	✓	
Dominica .....	✓	✓	✓		